

What is claimed is:

1. An optical fiber connector part comprising:  
a housing internally holding the end of an optical transmission route; and  
5 a shutter part shielding or releasing an output light beam from said optical transmission route in said housing ,  
wherein said shutter part has an optical diffusing reflection surface diffusing and reflecting said output light beam when said output light beam is shielded or released .  
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2. The optical fiber connector part as claimed in claim 1, wherein said optical diffusing reflection surface of said shutter part comprises an optical reflection surface having plural concavities and convexities.  
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3. The optical fiber connector part as claimed in claim 1, wherein said optical diffusing reflection surface of said shutter part has a convex curved surface to the projected light beam.
- 20 4. The optical fiber connector part as claimed in claim 1 , further comprising one or more optical reflection plates having optical diffusing reflection surfaces to reflect the reflecting light beam from said shutter part.
- 25 5. The optical fiber connector part as claimed in claim 2, further comprising one or more optical reflection plates having optical diffusing reflection surfaces to reflect the reflecting light beam from said shutter part.
- 30 6. The optical fiber connector part as claimed in claim 3, further comprising one or more optical reflection plates having optical diffusing reflection surfaces to reflect the reflecting light beam from said

shutter part.

7. The optical fiber connector part as claimed in claim 4,  
wherein said optical reflection plate includes a first optical reflection plate  
5 diffusing and reflecting the reflecting light beam from said shutter part, and  
a second optical reflecting plate diffusing and reflecting the reflecting light  
beam from said first optical reflection plate.

8. The optical fiber connector part as claimed in claim 5,  
10 wherein said optical reflection plate includes a first optical reflection plate  
diffusing and reflecting the reflecting light beam from said shutter part, and  
a second optical reflecting plate diffusing and reflecting the reflecting light  
beam from said first optical reflection plate.

9. The optical fiber connector part as claimed in claim 6,  
15 wherein said optical reflection plate includes a first optical reflection plate  
diffusing and reflecting the reflecting light beam from said shutter part, and  
a second optical reflecting plate diffusing and reflecting the reflecting light  
beam from said first optical reflection plate.

20 10. The optical fiber connector part as claimed in claim 4 ,  
wherein at least one of said optical reflection plates is combined with said  
shutter part.

25 11. The optical fiber connector part as claimed in claim 5,  
wherein at least one of said optical reflection plates is combined with said  
shutter part.

30 12. The optical fiber connector part as claimed in claim 6,  
wherein at least one of said optical reflection plates is combined with said  
shutter part.

13. The optical fiber connector part as claimed in claim 7, wherein at least one of said optical reflection plates is combined with said shutter part.

5 14. The optical fiber connector part as claimed in claim 8, wherein at least one of said optical reflection plates is combined with said shutter part.

10 15. The optical fiber connector part as claimed in claim 9, wherein at least one of said optical reflection plates is combined with said shutter part.

16. An optical fiber connector part comprising:  
means for holding the end of an optical transmission route;  
15 means for shielding or releasing an output light beam from said optical transmission route in said housing; and  
means for diffusing and reflecting said output light beam when said output light beam is shielded or released.